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1 **A fuzzy-logic autonomous agent applied as a supervisory controller in a simulated environment**
Chrysanthakopoulos, G.; Fox, W.L.J.; Miyamoto, R.T.; Marks, R.J., II; El-Sharkawi, M.A.; Healy, M.;
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Pages:107 - 122

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2 **'Online recognition of Chinese characters: the state-of-the-art**
Liu, C.-L.; Jaeger, S.; Nakagawa, M.;
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4 **A new design method for the complex-valued multistate Hopfield associative memory**
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10 **Stability, capacity, and statistical dynamics of second-order bidirectional associative memory**
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[Abstract] [PDF Full-Text (744 KB)] IEEE JNL

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1 **Determination of the natural frequencies of a thin wire elliptical loop**
Rothwell, E.; Gharsallah, N.;
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Pages:368 - 371

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16 **Correlation and validation of a CFD based hydrodynamic and dynamic model for a towed undersea vehicle**
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Zarillo, G.A.;
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queues with application to load balancing in distributed systems
Liu, H.T.; Silvester, J.;
INFOCOM '88. Networks: Evolution or Revolution? Proceedings. Seventh Annual Joint Conference of the IEEE Computer and Communcations Societies., IEEE , 27-31 March 1988
Pages:956 - 965

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1 Atomicity and isolation for transactional processes
Heiko Schuldt, Gustavo Alonso, Catriel Beeri, Hans-Jörg Schek
March 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 1

Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, references, index te

Processes are increasingly being used to make complex application logic explicit. Programming using processe problem from the system point of view in that the interactions between processes cannot be controlled using steps of a process are different from operations within a transaction. Each one has its own termination seman steps. Regarding c ...

Keywords: Advanced transaction models, business process management, electronic commerce, execution gu transactions, transactional workflows, unified theory of concurrency control and recovery

2 Using Time Instead of Timeout for Fault-Tolerant Distributed Systems.
Leslie Lamport
April 1984 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 6 Issue 2

Full text available: pdf(1.81 MB) Additional Information: full citation, references, citings, index terms

3 Process Structuring
J. J. Horning, B. Randell
January 1973 **ACM Computing Surveys (CSUR)**, Volume 5 Issue 1

Full text available: pdf(2.34 MB) Additional Information: full citation, references, citings, index terms

4 Parlog86 and the dining logicians
G. A. Ringwood
January 1988 **Communications of the ACM**, Volume 31 Issue 1

Full text available: pdf(1.90 MB) Additional Information: full citation, abstract, references, citings,

A classic problem in concurrent programming is that of the "dining philosophers" which challenges the power a growing number of logic programming languages have been refined to handle concurrent programming, one

5 Slot grammars
Michael C. McCord
January 1980 **Computational Linguistics**, Volume 6 Issue 1

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This paper presents an approach to natural language grammars and parsing in which slots and rules for filling a natural way of handling a wide variety of grammatical phenomena, such as WH-movement, verb dependenc

6 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collabora**

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Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time dia of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the Uni very complex and do not provide the user with the desired overview of the application. In our experience, suc commun ...

7 Draft Proposed: American National Standard—Graphical Kernel System

Technical Committee X3H3 - Computer Graphics

February 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue SI

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8 Compositional verification of concurrent systems using Petri-net-based condensation rules

Eric Y. T. Juan, Jeffrey J. P. Tsai, Tadao Murata

September 1998 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 20 Issue

Full text available: pdf(578.81 KB) Additional Information: full citation, abstract, references, citings,

The state-explosion problem of formal verification has obstructed its application to large-scale software system condensation theories: IOT-failure equivalence, IOT-state equivalence, and firing-dependence theory to cope weaker than current theories used for the compositional verification of Petri nets. More significantly, our new behaviors ...

Keywords: Petri nets, boundedness, compositional verification, deadlock states, reachability analysis, reacha

9 Common knowledge

John Geanakoplos

March 1992 **Proceedings of the 4th conference on Theoretical aspects of reasoning about knowle**

Full text available: pdf(3.29 MB) Additional Information: full citation, abstract, references

People, no matter how rational they are, usually act on the basis of incomplete information. If they are ration carefully on what they know and what they do not know, before choosing how to act. Furthermore, when ratio others know, and what the others know about what they know, before choosing how to act. Failing to do so c Professor Moriarty conf ...

10 FORTRAN vs. Basic FORTRAN: a programming language for informational processing on automatic d

October 1964 **Communications of the ACM**, Volume 7 Issue 10

Full text available: pdf(3.90 MB) Additional Information: full citation

11 Data allocation in distributed database systems

Peter M. G. Apers

September 1988 **ACM Transactions on Database Systems (TODS)**, Volume 13 Issue 3

Full text available: pdf(3.30 MB) Additional Information: full citation, abstract, references, citings,

The problem of allocating the data of a database to the sites of a communication network is investigated. This problem in several aspects. First, the objects to be allocated are not known a priori; second, these objects are between objects to produce the result. A model that makes it possible to compare the cost of allocations is pr

functi ...

12 Multilevel μTESLA: Broadcast authentication for distributed sensor networks

Donggang Liu, Peng Ning

November 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 4

Full text available: pdf(410.86 KB) Additional Information: full citation, abstract, references, index te

Broadcast authentication is a fundamental security service in distributed sensor networks. This paper present authentication scheme named multilevel μTESLA based on μTESLA, a broadcast authentication protoc parameter distribution. Multilevel μTESLA satisfies several nice properties, including low overhead, tolerance o

Keywords: Broadcast authentication, TESLA, sensor networks

13 Special issue on wireless pan & sensor networks: Design and analysis of Hybrid Indirect Transmission networks

Benjamin J. Culpepper, Lan Dung, Melody Moh

January 2004 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 8 Issue 1

Full text available: pdf(440.82 KB) Additional Information: full citation, abstract, references

Sensor networks have many potential applications in biology, physics, medicine, and the military. One major under the constraint of limited power supply. The paper addresses energy-efficiency in the context of routing Indirect Transmission (HIT). HIT is based on a hybrid architecture that consists of one or more clusters, each transmiss ...

14 The deductive synthesis of database transactions

Xiaolei Qian

December 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 4

Full text available: pdf(3.27 MB) Additional Information: full citation, references, index terms

Keywords: database programming, deductive tableau, integrity constraints, search control, transaction logic

15 Reasoning about systems with many processes

Steven M. German, A. Prasad Sistla

July 1992 **Journal of the ACM (JACM)**, Volume 39 Issue 3

Full text available: pdf(4.54 MB) Additional Information: full citation, abstract, references, citings,

Methods are given for automatically verifying temporal properties of concurrent systems containing an arbitra using CCS actions. TWo models of systems are considered. Systems in the first model consist of a unique con with identical definitions. For this model, a decision procedure to check whether all the executions of a proces

16 Dynamic voting algorithms for maintaining the consistency of a replicated database

S. Jajodia, David Mutchler

June 1990 **ACM Transactions on Database Systems (TODS)**, Volume 15 Issue 2

Full text available: pdf(4.07 MB) Additional Information: full citation, abstract, references, citings,

There are several replica control algorithms for managing replicated files in the face of network partitioning du algorithms ensure consistency at the price of reduced availability; they permit at most one (distinguished) pa known pessimistic algorithm, voting, is a "static" algorithm, meaning that all potential distinguished partitions

17 Synthesis of concurrent systems with many similar processes

Paul C. Attie, E. Allen Emerson

January 1998 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 20 Issue

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, citings,

Methods for synthesizing concurrent programs from temporal logic specifications based on the use of a decisio

been proposed by Emerson and Clarke and by Manna and Wolper. An important advantage of these synthesis compose a program and manually construct a proof of its correctness. One only has to formulate a precise pr mechanically constructs a ...

Keywords: concurrent programs, program synthesis, temporal logic

18 Termination of Probabilistic Concurrent Program

Sergiu Hart, Micha Sharir, Amir Pnueli

July 1983 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 5 Issue 3

Full text available: pdf(1.63 MB) Additional Information: full citation, references, citings, index terms

19 Ad hoc networks: Analysis of link reversal routing algorithms for mobile ad hoc networks

Costas Busch, Srikanth Surapaneni, Srikanta Tirthapura

June 2003 **Proceedings of the fifteenth annual ACM symposium on Parallel algorithms and arch**

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Link reversal algorithms provide a simple mechanism for routing in mobile ad hoc networks. These algorithms network, even when the network topology changes frequently. In link reversal, a node reverses its incident lin reversal algorithms have been studied experimentally and have been used in practical routing algorithms, inc performance analysis ...

Keywords: ad hoc networks, gafni-berstekas, link reversal routing

20 A comparative study of arbitration algorithms for the Alpha 21364 pipelined router

Shubhendu S. Mukherjee, Federico Silla, Peter Bannon, Joel Emer, Steve Lang, David Webb

October 2002 **Proceedings of the 10th international conference on Architectural support for progra** 30 , 36 , 37 Issue 5 , 5 , 10

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21 Learning bias and phonological-rule induction
Daniel Gildea, Daniel Jurafsky
December 1996 **Computational Linguistics**, Volume 22 Issue 4

Full text available: pdf(2.25 MB) Publisher Site Additional Information: full citation, abstract, references, citings

A fundamental debate in the machine learning of language has been the role of prior knowledge in the learnin Principles and Parameters model, build parameterized linguistic generalizations directly into the learning syste independent learning rule (Error Back-Propagation, Instance-based Generalization, Minimum Description Leng data.In this ...

22 Using permutations in regenerative simulations to reduce variance
James M. Calvin, Marvin K. Nakayama
April 1998 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 8 Issue 2

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We propose a new estimator for a large class of performance measures obtained from a regenerative simulati regeneration times. To construct our new estimator, we first generate a sample path of a fixed number of cyc the path into segments based on the second sequence of regeneration times, permute the segments, and calc sequence of regenerati ...

Keywords: efficiency improvement, permutations, regenerative simulation, variance reduction

23 The interdisciplinary study of coordination
Thomas W. Malone, Kevin Crowston
March 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 1

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This survey characterizes an emerging research area, sometimes called coordination theory, that focuses on t this area uses and extends ideas about coordination from disciplines such as computer science, organization t psychology. A key insight of the framework presented here is that coordination can be seen as the process of

Keywords: computer-supported cooperative work, coordination, coordination science, coordination theory, g

24 Special issue on using large corpora: I: Generalized probabilistic LR parsing of natural language (Corp
Ted Briscoe, John Carroll
March 1993 **Computational Linguistics**, Volume 19 Issue 1

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pdf(2.62 MB) Publisher Site

We describe work toward the construction of a very wide-coverage probabilistic parsing system for natural lan system is intended to rank the large number of syntactic analyses produced by NL grammars according to the deployed in each analysis. We discuss a fully automatic procedure for constructing an LR parse table from a u suitability of alternative ...

25 A asynchronous buffering network for tightly coupled multiprocessors

Yvon Jegou, Andre Seznee

June 1986 **Proceedings of the 3rd international conference on Supercomputing**

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In order to reach high performance, many levels of parallelism should be exploited simultaneously on massive system heavily depends on the interconnection between the processing elements and the memories: asynchr requests when independent tasks are run, but a strict control of the network is necessary for fine grain paralle delivery ...

26 Sorting on Electronic Computer Systems

Edward H. Friend

July 1956 **Journal of the ACM (JACM)**, Volume 3 Issue 3

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27 Parallel resource allocation algorithms on macro-pipelined architectures

K. M. Mossaad, C. L. Wu

April 1999 **Proceedings of the 19th annual conference on Computer Science**

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28 An algorithm for the blocks and cutnodes of a graph

Keith Paton

July 1971 **Communications of the ACM**, Volume 14 Issue 7

Full text available: pdf(708.96 KB) Additional Information: full citation, abstract, references, citings

An efficient method is presented for finding blocks and cutnodes of an arbitrary undirected graph. The graph m or (ii) as a packed adjacency matrix. If w denotes the word length of the machine employed, the storage (in m m edges increases essentially as 2(m + n) in case (i), or n

Keywords: algorithm, block, block-cutpoint-tree, cutnode, fundamental cycle set, graph, lobe, lobe decompo

29 Optimal tracing and replay for debugging message-passing parallel programs

R. H. B. Netzer, B. P. Miller

December 1992 **Proceedings of the 1992 ACM/IEEE conference on Supercomputing**

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30 Concurrency control by transactions carrying states and preordering universioned entities

Mohan L. Ahuja, J. C. Browne

February 1988 **Proceedings of the 1988 ACM sixteenth annual conference on Computer science**

Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, index te

In this paper, we present a concurrency control protocol for databases with universioned entities; the databas may not have data replication. In this protocol, entities are assigned an order and whenever possible each tra need not be accessed by a transaction may be skipped by the transaction, and out-of-order accesses are perm carr ...

31 The overhead of locking (and commit) protocols in distributed databases
Ouri Wolfson
September 1987 **ACM Transactions on Database Systems (TODS)**, Volume 12 Issue 3
Full text available: pdf(1.56 MB) Additional Information: full citation, abstract, references, citings, ____

The main purpose of a locking protocol is to ensure correct interleaving of actions executed by concurrent tra dictating how accessed entities should be locked and unlocked. As a result of obeying the rules, transactions i three measures of evaluating this overhead, each most suitable to a different type of underlying communicati

32 Design and performance evaluation of a MAC protocol for wireless local area networks
Marco Conti, Claudio Demaria, Lorenzo Donatiello
June 1997 **Mobile Networks and Applications**, Volume 2 Issue 1
Full text available: pdf(650.15 KB) Additional Information: full citation, abstract, references, citings, ____

We propose and analyze, from a performance viewpoint, a Medium Access Control (MAC) protocol for Wireles Prioritized-Access with Centralized-Control (PACC), supports integrated traffics by guaranteeing an almost com protocol combines random access for signalling, with collision-free access to the transmission channel. The tra grouped int ...

33 Partial evaluation of pattern matching in constraint logic programming languages
Donald A. Smith
May 1991 **ACM SIGPLAN Notices , Proceedings of the 1991 ACM SIGPLAN symposium on Partia manipulation**, Volume 26 Issue 9
Full text available: pdf(957.80 KB) Additional Information: full citation, references, citings, index term

34 Usability analysis with Markov models
Harold Thimbleby, Paul Cairns, Matt Jones
June 2001 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 8 Issue 2
Full text available: pdf(289.08 KB) Additional Information: full citation, abstract, references, citings, ____

How hard to users to find interactive devices to use to achieve their goals, and how can we get this informatio Markov modeling can obtain suitable measures, and we provide formulas that can be used for a large class of for various real examples. We introduce a "knowledege/usability graph," which shows the impact of even a sm extent ...

Keywords: Markov models, usability analysis

35 Retrieving video data via motion tracks of content symbols
Tim T. Y. Wai, Arbee L. P. Chen
January 1997 **Proceedings of the sixth international conference on Information and knowledge manag**
Full text available: pdf(1.20 MB) Additional Information: full citation, references, index terms

36 Distributed computing: A pleasant stroll through the land of infinitely many creatures
Marcos K. Aguilera
June 2004 **ACM SIGACT News**, Volume 35 Issue 2
Full text available: pdf(281.95 KB) Additional Information: full citation, abstract, references

Many distributed algorithms are designed for a system with a fixed set of *n* processes. However, some system that the number of processes may grow to infinity as time tends to infinity. This paper considers such system not necessarily efficient) for common problems. The reason for simplicity is to better expose some of the algo processes. A ...

37 A data structure for arc insertion and regular path finding

h c g e cf e e e e c e ce

Adam L. Buchsbaum, Paris C. Kanellakis, Jeffrey S. Vitter
January 1990 **Proceedings of the first annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(1.01 MB) Additional Information: full citation, references, citings, index terms

38 A Majority consensus approach to concurrency control for multiple copy databases

Robert H. Thomas
June 1979 **ACM Transactions on Database Systems (TODS)**, Volume 4 Issue 2

Full text available: pdf(2.32 MB) Additional Information: full citation, abstract, references, citings, ____

A "majority consensus" algorithm which represents a new solution to the update synchronization problem for embodies distributed control and can function effectively in the presence of communication and database site demonstrated and the cost of using it is analyzed. Several examples that illustrate aspects of the algorithm op

Keywords: clock synchronization, computer networks, concurrency control, distributed computation, distribu systems, update synchronization

39 A workload characterization pipeline for models of parallel systems

William Alexander, Tom W. Keller, Ellen E. Boughter
May 1987 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1987 ACM SI modeling of computer systems**, Volume 15 Issue 1

Full text available: pdf(961.78 KB) Additional Information: full citation, abstract, references, citings, ____

The same application implemented on different systems will necessarily present different workloads to the sys represent the same application, but input to models of different systems, must also differ in analogous ways. workload at increasing levels of detail such that every characterization at a lower level still accurately represe

40 Consensus numbers of multi-objects

Eric Ruppert
June 1998 **Proceedings of the seventeenth annual ACM symposium on Principles of distributed comp**

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